

04-NOV-09  
10:39:58

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

36.00' CURB-TO-CURB; 5 BEAMS; 147.50' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
39.250	3.625	3.625	19.625	5	71.308	3	1	8.000	0

  

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															

  

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
19.625				

LIVE LOAD CASE # 1 1 TRUCKS

\* \*  
\* \*  
\* \*  
\*\*\* \*\*  
\* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	89.135
2	0.7500	53.481
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

\* \* \* \*  
\* \* \* \*  
\* \* \* \*  
\*\*\* \*\* \* \*  
\* \* \* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	89.135
2	1.5000	106.962
3	1.2500	89.135
4	0.0000	0.000
5	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*  
\*\*\* \*\* \* \* \*  
\* \* \* \* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	1.2500	89.135
2	1.5000	106.962
3	1.7500	124.789
4	1.2500	89.135
5	0.2500	17.827

LIVE LOAD CASE # 4 1 TRUCKS

\* \*  
\* \*  
\* \*  
\*\*\* \*\*  
\* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000

2	0.0000	0.000
3	0.0000	0.000
4	0.7500	53.481
5	1.2500	89.135

□

LIVE LOAD CASE # 5                    2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *
    
```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	1.2500	89.135
4	1.5000	106.962
5	1.2500	89.135

LIVE LOAD CASE # 6                    3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** ** ** ** ** **
*   *   *   *   *   *
    
```

```

-----
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
I   I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.2500	17.827
2	1.2500	89.135
3	1.7500	124.789
4	1.5000	106.962
5	1.2500	89.135

□

LIVE LOAD CASE # 7                    1 TRUCKS

```

*   *
*   *
*   *
*** **
*   *
    
```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.3750	26.740
3	1.2500	89.135
4	0.3750	26.740
5	0.0000	0.000

LIVE LOAD CASE # 8                    2 TRUCKS

```

*   *   *   *
*   *   *   *
*   *   *   *
*** ** ** **
*   *   *   *
    
```

```

-----
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
I   I   I   I   I
    
```

BEAM	WHEEL FRACTION	P-LOAD
1	0.6250	44.567
2	1.6250	115.875
3	1.3750	98.049
4	0.3750	26.740
5	0.0000	0.000

□

LIVE LOAD CASE # 9                    3 TRUCKS

```

*   *   *   *   *   *
*   *   *   *   *   *
*   *   *   *   *   *
*** ** ** ** *
*   *   *   *   *   *
    
```

```

-----
I   I   I   I   I
    
```

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
BEAM	WHEEL	FRACTION	P-LOAD	
1	0.6250		44.567	
2	1.6250		115.875	
3	1.5000		106.962	
4	1.6250		115.875	
5	0.6250		44.567	

LIVE LOAD CASE # 10 2 TRUCKS

\* \* \* \*  
 \* \* \* \*  
 \* \* \* \*  
 \*\*\* \*\* \* \*\*  
 \* \* \* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
BEAM	WHEEL	FRACTION	P-LOAD	
1	0.0000		0.000	
2	1.2500		89.135	
3	1.5000		106.962	
4	1.2500		89.135	
5	0.0000		0.000	

LIVE LOAD CASE # 11 2 TRUCKS

\* \* \* \*  
 \* \* \* \*  
 \* \* \* \*  
 \*\*\* \*\* \* \*\*  
 \* \* \* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
BEAM	WHEEL	FRACTION	P-LOAD	
1	1.2500		89.135	
2	0.7500		53.481	
3	0.0000		0.000	
4	0.7500		53.481	
5	1.2500		89.135	

LIVE LOAD CASE # 12 3 TRUCKS

\* \* \* \*  
 \* \* \* \*  
 \* \* \* \*  
 \*\*\* \*\* \* \*\*  
 \* \* \* \*

I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
I	I	I	I	I
BEAM	WHEEL	FRACTION	P-LOAD	
1	1.2500		89.135	
2	1.5000		106.962	
3	1.2500		89.135	
4	0.7500		53.481	
5	1.2500		89.135	

04-NOV-09  
 10:39:58

GEORGIA DEPARTMENT OF TRANSPORTATION  
 PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
 SUMMARY OF THE LIVE LOAD CASE PROGRAM  
 REVISED: JUNE 26, 2008

PROB. NO. LL01

36.00' CURB-TO-CURB; 5 BEAMS; 147.50' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
39.250	3.625	3.625	19.625	5	71.308	3	1	8.000	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	8.000	8.000	8.000	8.000															
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
19.625																			
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	89.135	53.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	89.135	106.962	89.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

LL-36-5-148.OUT

LL CASE	3	3	89.135	106.962	124.789	89.135	17.827	0.000	0.000	0.000	0.000	0.000
LL CASE	4	1	0.000	0.000	0.000	53.481	89.135	0.000	0.000	0.000	0.000	0.000
LL CASE	5	2	0.000	0.000	89.135	106.962	89.135	0.000	0.000	0.000	0.000	0.000
LL CASE	6	3	17.827	89.135	124.789	106.962	89.135	0.000	0.000	0.000	0.000	0.000
LL CASE	7	1	0.000	26.740	89.135	26.740	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	8	2	44.567	115.875	98.049	26.740	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	9	3	44.567	115.875	106.962	115.875	44.567	0.000	0.000	0.000	0.000	0.000
LL CASE	10	2	0.000	89.135	106.962	89.135	0.000	0.000	0.000	0.000	0.000	0.000
LL CASE	11	2	89.135	53.481	0.000	53.481	89.135	0.000	0.000	0.000	0.000	0.000
LL CASE	12	3	89.135	106.962	89.135	53.481	89.135	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL	1	1	89134	53481	0	0	0	0	0
61LL	2	2	89134	106962	0	89134	0	0	0
61LL	3	3	89134	106962	0124789	0	89134	17827	0
61LL	4	1	0	0	0	0	0	53481	89134
61LL	5	2	0	0	0	89134	0106962	89134	0
61LL	6	3	17827	89134	0124789	0106962	89134	0	0
61LL	7	1	0	26740	0	89134	0	26740	0
61LL	8	2	44567	115875	0	98048	0	26740	0
61LL	9	3	44567	115875	0106962	0115875	44567	0	0
61LL	10	2	0	89134	0106962	0	89134	0	0
61LL	11	2	89134	53481	0	0	53481	89134	0
61LL	12	3	89134	106962	0	89134	0	53481	89134